

1/5

1  
 ATG AAA GCG ATC TTA ATC CCA TTT TTA TCT CTT CTG ATT CCG TTA ACC CCG  
 Met Lys Ala Ile Leu Ile Pro Phe Leu Ser Leu Ile Pro Leu Thr Pro  
 CAA TCT GCA TTC GCT CAG AGT GAG CCG GAG CTG AAG CTG GAA AGT GTG GTG  
 Gln Ser Ala Phe Ala Gln Ser Glu Pro Glu Leu Lys Leu Glu Ser Val Val  
 ATT GTC AGT CGT CAT GGT GTG CGT GCT CCA ACC AAG GCC ACG CAA CTG ATG  
 Ile Val Ser Arg His Gly Val Arg Ala Pro Thr Lys Ala Thr Gln Leu Met  
 CAG GAT GTC ACC CCA GAC GCA TGG CCA ACC TGG CCG GTA AAA CTG GGT TGG  
 Gln Asp Val Thr Pro Asp Ala Trp Pro Thr Trp Pro Val Lys Leu Gly Trp  
 CTG ACA CCG CGN GGT GGT GAG CTA ATC GCC TAT CTC GGA CAT TAC CAA CGC  
 Leu Thr Pro Arg Gly Gly Glu Leu Ile Ala Tyr Leu Gly His Tyr Gln Arg  
 CAG CGT CTG GTA GCC GAC GGA TTG CTG GCG AAA AAG GGC TGC CCG CAG TCT  
 Gln Arg Leu Val Ala Asp Gly Leu Leu Ala Lys Lys Gly Cys Pro Gln Ser  
 GGT CAG GTC GCG ATT ATT GCT GAT GAT GTC GAC GAG CCG ACC CCGT AAA ACA GGC  
 Gly Gln Val Ala Ile Ile Ala Asp Val Asp Glu Arg Thr Arg Lys Thr Gly

FIG. 1A

GAA	GCC	TTC	GCC	GCC	GGG	CTG	GCA	CCT	GAC	TGT	GCA	ATA	ACC	GTA	CAT	ACC
Glu	Ala	Phe	Ala	Ala	Gly	Leu	Ala	Pro	Asp	Cys	Ala	Ile	Thr	Val	His	Thr
CAG	GCA	GAT	ACG	TCC	AGT	CCC	GAT	CCG	TTA	TTT	AAT	CCT	CTA	AAA	ACT	GGC
Gln	Ala	Asp	Thr	Ser	Ser	Pro	Asp	Pro	Leu	Phe	Asn	Pro	Leu	Lys	Thr	Gly
GTT	TGC	CAA	CTG	GAT	AAC	GCG	AAC	GTG	ACT	GAC	GCG	ATC	CTC	AGC	AGG	GCA
Val	Cys	Gln	Leu	Asp	Asn	Ala	Asn	Val	Thr	Asp	Ala	Ile	Leu	Ser	Arg	Ala
GGA	GGG	TCA	ATT	GCT	GAC	TTT	ACC	GGG	CAT	CGG	CAA	ACG	GCG	TTT	CGC	GAA
Gly	Gly	Ser	Ile	Ala	Asp	Phe	Thr	Gly	His	Arg	Gln	Thr	Ala	Phe	Arg	Glu
CTG	GAA	CGG	GTG	CTT	AAT	TTT	CCG	CAA	TCA	AAC	TTG	TGC	CTT	AAA	CGT	GAG
Leu	Glu	Arg	Val	Leu	Asn	Phe	Pro	Gln	Ser	Asn	Leu	Cys	Leu	Lys	Arg	Glu
AAA	CAG	GAC	GAA	AGC	TGT	TCA	TTA	ACG	CAG	GCA	TTA	CCA	TCG	GAA	CTC	AAG
Lys	Gln	Asp	Glu	Ser	Cys	Ser	Leu	Thr	Gln	Ala	Leu	Pro	Ser	Glu	Leu	Lys
GTG	AGC	GCC	GAC	AAT	GTC	TCA	TTA	ACC	GGT	GCG	GTA	AGC	CTC	GCA	TCA	ATG
Val	Ser	Ala	Asp	Asn	Val	Ser	Leu	Thr	Gly	Ala	Val	Ser	Leu	Ala	Ser	Met

FIG. 1B

CTG	ACG	GAG	ATA	TTT	CTC	CTG	CAA	CAA	GCA	CAG	GGA	ATG	CCG	GAG	CCG	GGG
Leu	Thr	Glu	Ile	Phe	Leu	Leu	Gln	Gln	Ala	Gln	Gly	Met	Pro	Glu	Pro	Gly
TGG	GGA	AGG	ATC	ACC	GAT	TCA	CAC	CAG	TGG	AAC	ACC	TTG	CTA	AGT	TTG	CAT
Trp	Gly	Arg	Ile	Thr	Asp	Ser	His	Gln	Trp	Asn	Thr	Leu	Leu	Ser	Leu	His
AAC	GCG	CAA	TTT	TAT	TTG	CTA	CAA	CGC	ACG	CCA	GAG	GTT	GCC	CGC	AGC	CGC
Asn	Ala	Gln	Phe	Tyr	Leu	Leu	Gln	Arg	Thr	Pro	Glu	Val	Ala	Arg	Ser	Arg
GCC	ACC	CCG	TTA	TTG	GAT	TTG	ATC	ATG	GCA	GCG	TTG	ACG	CCC	CAT	CCA	CCG
Ala	Thr	Pro	Leu	Leu	Asp	Leu	Ile	Met	Ala	Ala	Leu	Thr	Pro	His	Pro	Pro
CAA	AAA	CAG	GCG	TAT	GGT	GTG	ACA	TTA	CCC	ACT	TCA	GTA	CTG	TTT	ATT	GCC
Gln	Lys	Gln	Ala	Tyr	Gly	Val	Thr	Leu	Pro	Thr	Ser	Val	Leu	Phe	Ile	Ala
GGA	CAC	GAT	ACT	AAT	CTG	GCA	AAT	CTC	GGC	GGC	GCA	CTG	GAG	CTC	AAC	TGG
Gly	His	Asp	Thr	Asn	Leu	Ala	Asn	Leu	Gly	Gly	Ala	Leu	Glu	Leu	Asn	Trp
ACG	CTT	CCC	GGT	CAG	CCG	GAT	AAC	ACG	CCG	CCA	GGT	GGT	GAA	CTG	GTG	TTT
Thr	Leu	Pro	Gly	Gln	Pro	Asp	Asn	Thr	Pro	Pro	Gly	Gly	Glu	Leu	Val	Phe

FIG. 1C

GAA CGC TGG CGT CGG CTA AGC GAT AAC AGC CAG TGG ATT CAG GTT TCG CTG  
 Glu Arg Trp Arg Arg Leu Ser Asp Asn Ser Gln Trp Ile Gln Val Ser Leu  
  
 GTC TTC CAG ACT TTA CAG CAG ATG CGT GAT AAA ACG CCG CTG TCA TTA AAT  
 Val Phe Gln Thr Leu Gln Gln Met Arg Asp Lys Thr Pro Leu Ser Leu Asn  
  
 ACG CCG CCC GGA GAG GTG AAA CTG ACC CTG GCA GGA TGT GAA GAG CGA AAT  
 Thr Pro Pro Gly Glu Val Lys Leu Thr Leu Ala Gly Cys Glu Glu Arg Asn  
  
 GCG CAG GGC ATG TGT TCG TTG GCA GGT TTT ACG CAA ATC GTG AAT GAA GCA  
 Ala Gln Gly Met Cys Ser Ser Leu Ala Gly Phe Thr Gln Ile Val Asn Glu Ala  
  
 CGC ATA CCG GCG TGC AGT TTG AGA TCT CAT CAC CAT CAC TAA 1323  
 Arg Ile Pro Ala Cys Ser Leu Arg Ser His His His His His End

4/5

**FIG. 1D**

